



Fig. 5

```

                                60
                                *
AGGTCCACCACCTCCATCTTACACCTGCTTTCGTTGTGGTAAACCTGGTCATTATATTAAGAAT
                                120
                                *
TGCCAACAAATGGGGATAAGAACTTTGAATCTGGTCCTAGGATCAAAAAGAGCACTGGAATTCC
                                180
                                *
TAGAAGTTTTATGATGGAAGTGAAAGATCCTAACATGAAAGGTGCAATGCTTACCAACACTGGA
                                240
                                *
AAATATGCAATACCAACTATAGATGCAGAGGCCTATGCAATCGGGAAGAAAGAGAAACCACCCT
                                300
                                *
TCTTACCAGAGGAGCCATCATCATCTTCAGAAGAAGATGATCCTATCCCAGCAGAGCTCTTG TG
                                360
                                *
CCTCATCTGCAAAGACATCATGACTGATGCTGTGGTCATTCCCTGCTGTGGAAACAGTTCATGT
                                420
                                *
GATGAATGTATAAGAACGACACTCTTGGAGTCAGATAAACATACATGTCCAACATGTCACCAAA
                                480
                                *
ATGATGTTTCTCCTGATGCTTTAATTGCCAACAAGTTTTTACGACAGGCTGTTAATAACTTTAA
                                540
                                *
AAATGAAACTGGCTATACAAAACGACTACGAAAACAGTTACCTCCATTTTTATTTTTAGTACCA
                                600
                                *
CCACCAAGACCACTCAGTCAGCGGAACCTACAGCCTCGTAGTAGATCTCCAATACTAAGACAGC
                                660
                                *
AGGATCCTGTAGTATTCAGGTACACTGTCTCGCCTACCTGCTCCGATACTAAGACAGCAGGATC
                                720
                                *
CTGTAGTGATTTCAGGTACACTGTCTCGCCTACCTGCTCCGTCTATATCTTCATTA ACTTCTAAT
                                780
                                *
CAGTCTTCCTTGGCCCCTCCTGTGTCTGGAAATCCGTCTTCTGCTCCAGCTCCAGTACCTGATA
                                840
                                *
TAACTGCAACCGTGTCTATATCAGTCCACTCAGAAAAATCGGATGGACCTTTTCGGGATTCTGA
                                900
                                *
TAATAAATTATTGCCAGCTGCCGCCCTTACATCAGAACATTCAAAGGGAGCCTCTTCAATTGCT
                                960
                                *
                                1020
                                *
ATTACTGCTCTTATGGAAGAAAAAGGGGTACCAGGTACCAGTCCTTGGA ACTCCATCTTTGTTG

```

Fig. 6A

```

                                1080
                                *
GACAGTCATTATTACATGGACAGTTGATTCCCACAACCTGGCCCAGTAAGAATCAATGCTGCTCG
                                1140
                                *
TCCAGGTGGTGGCCGGCCAGGCTGGGAGCATTCCAACAAGCTTGGGTACCTAGTTTCTCCACCA
                                1200
                                *
CAGCAAATTAGAAGAGGAGAAAGAAGCTGTTACAGAAGTATAAACC GCGGGCGACACCACAGCG
                                1260
                                *
AACGATCACAGAGGACTCAAAGCCCATCACTTCCAGCAACTCCATGCTTTGTGCCCCGTTCCACC
                                1320
                                *
ACCTCCTTTGTATCCGCTCCTCCCCATACACTTCCTCTTCCCTCCAGGTGTACCTCCTCCACAG
                                1380
                                *
TTTTCTCCTCAGTTTCCCTCCTCCCAGCCTCCAACAGCAGGATATAGTGTCCCTCCTCCAGGAT
                                1440
                                *
TTCCACCAGCTCCTGCCAATATATCAACAGCTTGCTTTTCACCAGGTGTTCCCACTGCCCATTCTC
                                1500
                                *
AAATACCATGCCCACAACACAAGCACCTCTTTTGTCCAGGGAAGAATTCTATAGAGAGCAAAAC
                                1560
                                *
GACAAAGGAAGAGAGTCTAAATTTCCCTATAGTGGGTCATCGTATTCAAGAAGTTCATACACTG
                                1620
                                *
ACTCAAGTCAAGGTCTGGCTCAACACATTACGCTCTTACTCTCAGTCCTTCAGCTGCTCACAC
                                1680
                                *
TCTCGATCTTCTTCACGATCATCCCCATCCTCCAGAAGAGGCAGAGGCAAGATCTGCAATGATT
                                1740
                                *
GTTTACATGCCAGATCTCATGGATATCGCCCATGCTAGGTCAAGGTCACCTCCCTATAGACGAT
                                1800
                                *
ATCGCTCACGGTCCAGATCTCCTCCAGAATTTAGGGGACAGTCTCCCACTAAACGTAATGTACC
1860
                                *
TCGAGAAGAGAAAGAACGTGAGTATTTTAATAGATACAGAGAAGTTCACCCCCCTTATGACATC
                                1980
                                *
AAAGCCTATTATGGGCGGAGTGTCGACTTTAGAGACCCATTTGAGAAAGAACGCTACCGGGAAT
                                2040
                                *
GGGAAAGGAAATACCGAGAGTGGTATGAGAAGTACTACAAAGGGTACGCGGTGGGAGCTCAACC

```

Fig. 6B

2100
*
TAGACCCCTCAGCCAATAGAGAGGACTTTTCTCCAGAGAGACTCTTACCTCTTAATATCAGAAAT
2160
*
TCACCCTTCACAAGAGGCCGCGAGAGAAGACTATGCTGCTGGACAAAGTCATAGAAATAGAAATC
2220
*
TAGGTGGCAACTATCCAGAAAAGCTTTCAACAAGGGACAGTCACAATGCAAAAGATAATCCAAA
2280
*
ATCGAAGGAGAAGGAGAGTGAGAATGTTCCAGGAGACGGCAAAGGGAACAAGCATAAGAAACAC
2340
*
AGGAAACGAAGAAACGAAGAAAAGGGGGAAGAGAGTGAGAGCTTCCTGAACCCAGAGCTACTGG
2400
*
AGACGTCTAGGAAATGCAGGGGATCGTCAGGGATTGATGAAACGAAGACAGATACACTGTTTGT
2460
*
TCTCCCAAGCAGAGACGATGCTACACCTGTTAGGGATGAGCCAATGGACGCAGAATCGATCACT
2520
*
TTCAAGTCAGTATCTGACAAAGACAAGAGGGGAAAAGGATAAGCCAAAAGTAAAAGTGACAAGA
2580
*
CCAAACGGAAAAGTGACGGGTCTGCTACAGCCAAGAAAGACAATGTTTTAAACCTTCTAAAGG
2640
*
ACCTCAAGAAAAGGTAGATGGAGACCGTGAAAAGTCTCCTCGGTCTGAGCCGCCACTCAAAAAA
2700
*
GCCAAAGAGGAGGCTACAAAGATTGACTCTGTAAAACCTTCCTCGTCTTCTCAGAAGGATGAGA
2760
*
AGGTCACTGGAACCCCTAGAAAAGCCCATTCTAAATCTGCAAAGACACCAGGAGGCAAAGCCA
2820 2880
* *
GCCAAGGACGAGAAGGTCAAAAAGGACTGTTCCAAAGACATCAAGTCAGAAAAGCCAGCCAGTA
2940
*
AGGACGAGAAGGCCAAGAAGCCTGAGAAAAATAAACTACTTGATAGCAAGGGAGAAAAACGAAA
3000
*
GAGAAAAACGGAAGAAGAGGTGTAGATAAAGATTTTGAGTCGTCTTCAATGAAAATCTCTAAAGT

Fig. 6C

3060
 *
 AGAAGGAACAGAAATAGTGAAACCATCACCAAACGGAAAATGGAAGGTGATGTTGAAAAGCTG
 3120
 *
 GAAAGGACCCCAGAAAAGGACAAGATTGCATCATCAACTACTCCAGCCAAAAAATCAAACCTCA
 3180
 *
 ACAGAGAACTGGAAAAAAATTGGAAATGCAGAAAATGCATCTACTACAAAAGAACCCTCTGA
 3240
 *
 AAAATTGGAGTCAACATCTAGCAAAATCAAACAGGAAAAAGTCAAGGGAAAGGCCAAACGGAAA
 3300
 *
 GTAGCTGGGTCGGAAGGCTCCAGCTCCACGCTTGTGGATTACACCAGTACAAGTTCAACTGGAG
 3360
 *
 GCAGTCCTGTGAGGAAATCTGAAGAAAAGACAGATACAAAGCGAACAGTCATTAAACTATGGA
 3420
 *
 GGAATATAATAATGATAACACAGCTCCTGCTGAAGATGTTATAATTATGATCCAGGTTCTCAG
 3480
 *
 TCCAAATGGGATAAAGATGACTTTGAGTCTGAAGAAGAAGATGTTAAAACACACAACCTATAC
 3540
 *
 AGAGTGTAGGGAAACCATCGAGTATTATAAAAAATGTCACTACTAAGCCATCGGCTACGGCTAA
 3600
 *
 GTACACCGAGAAGGAAAGCGAGCAGCCCGAGAACTGCAGAAGCTTCCCAAGGAGGCGAGCCAC
 3660
 *
 GAGCTGATGCAGCACGAGCTCAGGAGCTCAAAGGGCAGTGCGTCCAGTGAGAAGGGCAGAGCCA
 3720
 *
 AGGACCGGGAGCACTCAGGGTCGGAGAAGGACAACCCTGACAAGAGGAAGAGCGGTGCCAGCC
 3780 3840
 * *
 AGACAAGGAGAGCACTGTGGACCGCCTGAGTGAGCAGGGACATTTTAAGACTCTCTCTCAGTCT
 3900
 *
 TCCAAAGAGACCAGGACTTCAGAGAAGCACGAGTCTGTTTCGTGGTTCCTCAAATAAAGACTTCA
 3960
 *
 CTCCTGGTAGAGACAAGAAAGTGGACTACGACAGCAGGGATTATTCCAGTTCCAAGCGAAGAGA
 4020
 *
 CGAGAGAGGTGAATTAGCAAGGAGAAAAGACTCTCCTCCCCGGGGCAAAGAGTCTCTGTCTGGG

Fig. 6D

4080
*
CAGAAAAGCAAGCTGAGGGAGGAGAGAGATTTACCTAAAAAGGGGGCCGAGTCAAAAAAAGTA
4140
*
ATTCTAGCCCCCAAGAGACAAAAAGCCTCATGATCATAAAGCCCCCTACGAACTAAACGCCC
4200
*
ATGTGAAGAGACAAAGCCTGTAGATAAAAACTCTGGGAAGGAGCGGGAGAAGCATGCTGCTGAA
4260
*
GCTCGCAATGGGAAAGAGTCCAGTGGTGCAAAGTCCCATGTATACCTAACCCGCCAGACCCTCC
4320
*
CATGGAGAAGGAGCTGGCTGCTGGGCAGGTGGAGAAGAGCGCCGTCAAGCCGAAACCCAGCTG
4380
*
AGCCATTCCTCGAGGCTTTCCTCTGACCTGACCCGGGAGACGAACGAGGCAGCCTTTGAACCAG
4440
*
ATTATAATGAGAGCGACAGTGAGAGTAATGTGTCTGTGAAGGAAGAAGAAGCTGTTGCCAGTAT
4500
*
CTCCAAGGACTTGAAAGAGAAAACAACAGAGAAAGCGAAAGAGAGCTTGACTGTAGCAACGGCC
4560
*
AGCCAGCCAGGTGCAGACAGGAGCCAGAGCCAAAGTAGCCCAGTGTTAGTCAGTAGAGTCATAG
4620
*
CCTTCGGAGCCAGACCCGAAGCCACAGCAGCAGTGCCAGCTCAGCCGGAAGGCCAGGACAGCAA
4680
*
AAAGAAGAAGAAGAAGGAGAAGAAAAACGACAAGAAGCATAAAAAGCACAAGAAGCACAAG
4740 4800
*
AAGCACGCAGGCCGACGGCGACGTGGAGAAGAGCCAGAAACACAAACACAAGAAGAAGAGGCC
4860
*
AAGAAGAACAAGACAAGGAGAAGGAGAAAGATGACCAAAAAGTGAGATCTGTCACTGTGTGAA
4920
*
GGACGGATGTGTTAATTGACTTAATTACTAAGTCATCTGTATTAAATTCTGTTATAATGTAAAG
4980
*
AGATTCCAGCCTTGTAATAATGAATGGAAGACCCTGTGCTGCACTTAAAGTATTTGCTGCTT
5040
*
GATTATTTCAATTTTACATCAGAGCTTTATAACGAACTTTTGTACAGAATTGTGAGTTGTGACC

Fig. 6E

5100

*

ATGGAACAGTGAGAGGTTTTGCTAGGGCCTATTATTTTAAACCACCATTAATTAGTTGGGGTGG

5160

*

AGTTTACTGTACTGTGAAATTTTCACATTTGAATTTTTTAAATTGCCTGGCAA

Fig. 6F